

Db 157 NGVOEVSLDKQVTDKNNVTOELDAQARRYLQKDLKLYNNDTLGKIQORKEIFDSSDG 216
 QY 193 KHEQIDLFDSPNEGTRSDIFAK----YKDNRIINNNKNSHEDIYL 233
 Db 217 SKVSYDLFD-----VKGDPEPKQIRIYSDNKTLSHDL-HIDIYL 255

RESULT 2 US-09-751-708A-14

Sequence 14, Application US/09751708A
 Publication No. US20030157113A1
 GENERAL INFORMATION:
 APPLICANT: TERMAN, David S
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
 FILE REFERENCE: 751708
 CURRENT APPLICATION NUMBER: US/09/751,708A
 PRIOR FILING DATE: 1999-12-28
 PRIOR APPLICATION NUMBER: US 60/173,371
 NUMBER OF SEQ ID NOS: 166
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 14
 LENGTH: 258
 TYPE: PRT
 ORGANISM: Staphylococcus aureus
 US-09-751-708A-14

Query Match 17.8%; Score 219; DB 12; Length 258;
 Best Local Similarity 26.3%; Pred No. 2.6e-13;
 Matches 75; Conservative 46; Mismatches 82; Indels 82; Gaps 12;

QY 1 MKKINIKIVFITVILIS--TYFTYHOSDSKRD-----ISNVK----- 37
 Db 1 MKKFILLALFETSLVISPVLVKANENIDSVKELMKKSELSTALNNMKHSYADKNP 60
 QY 38 -----SDLYXATITP-YDKDCRVNESTTHLNTDQYRKGDYIISSEM 82
 Db 61 IIGENKSTGDFLENTLLYKKEFTDLINFEEDLINFN----- 97
 QY 83 SYEASQKFRDHDVDFGLFYILNSHTGEY-----YGGIPPAONKNVNH--KLGNLFI 135
 Db 98 SKEMAQHFK-SKNVQVYPIRISINCYGEIDRTACTYGGVTPHEGNKLEKRRKIFINLMI 156
 QY 136 SGEQOQNNKNIIEKLDIVTFOEIDFKIRKYLMDNKKYIDATS---PYVSGRIEIGTGDG 192
 Db 157 NGVOEVSLDKQVTDKNNVTOELDAQARRYLQKDLKLYNNDTLGKIQORKEIFDSSDG 216
 QY 193 KHEQIDLFDSPNEGTRSDIFAK----YKDNRIINNNKNSHEDIYL 233
 Db 217 SKVSYDLFD-----VKGDPEPKQIRIYSDNKTLSHDL-HIDIYL 255

RESULT 3

US-08-882-431-16
 Sequence 16, Application US/08882431
 Publication No. US20030009015A1
 GENERAL INFORMATION:
 APPLICANT: Robert G. Ulrich,
 APPLICANT: Mark A. Olson
 APPLICANT: Sina Bavari
 TITLE OF INVENTION: Bacterial Superantigen
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: John Moran
 STREET: US Army MRC - 504 Scott Street MCMR-JA (John Moran-Patent Atty)
 CITY: FORT DETRICK
 STATE: MARYLAND
 COUNTRY: USA
 ZIP: 21702-5012
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Macintosh

OPERATING SYSTEM: Macintosh 7.5
 SOFTWARE: Microsoft Word 6.0
 CURRENT APPLICATION DATA: US/08/882,431
 APPLICATION NUMBER: US/08/882,431
 FILING DATE: June 25, 1997
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Moran, John
 REGISTRATION NUMBER: 26,313
 REFERENCE/DOCKET NUMBER:
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (301) 619-2065
 TELEFAX: (301) 619-7714
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 251
 TYPE: Amino Acid
 STRANDEDNESS: Unknown
 TOPOLOGY: Unknown
 MOLECULE TYPE: Peptide
 US-08-882-431-16

Query Match 17.1%; Score 211; DB 8; Length 251;
 Best Local Similarity 27.8%; Pred No. 1.5e-12;
 Matches 72; Conservative 54; Mismatches 91; Indels 42; Gaps 14;

QY 2 KKNINIKIVFITVILISFTYFT-----YHOSDSKRDISNVKSLDYAVTTP 48
 Db 5 KKV-LKKVFFLVFLGLTISQVEFAQDDPPSQLHRSVLVKNQNT---YFLEGDP 59
 QY 49 YDKRCR-VNSTHTLMDIDQYRKGDY-YISSEMSIEASQKFRDHDVDFGL-FYIL 105
 Db 60 VTHENVKSVDDLRSIDLHYNVS--GPNYDKLTKELKQEMATLEKDKNVDYGEYHL 116
 QY 106 -----NSHTGEYIYGPAPONKNVNH-----KLGNLFIGEQOQNNKNIIEKLDIVT 155
 Db 117 CYLCMAERSACTYGV---NHENHLEIRKKIYVKSISG--IQSLSPDIETKKKAVT 171
 QY 156 FOEIDFKIRKYLMDNKKYI-DATSPYVSGRIEIGTKDQKHQIDLFDSPNEGTRSDIFAK 214
 Db 172 AQELDYKRYKLTLDKQLYTNGPSKYEFTGYIKFLPKNKESEWDFEPPR-BETQSKYLM 230
 QY 215 YKDNRIINNNKNSHEDIYL 233
 Db 231 YKDNETLD-SNTSQILEYVL 248

RESULT 4

US-10-002-784A-16
 Sequence 16, Application US/10002784A
 Publication No. US2003003664A1
 GENERAL INFORMATION:
 APPLICANT: Ulrich, Robert G.
 TITLE OF INVENTION: Bacterial Superantigen Vaccines
 FILE REFERENCE: 003/233/SAP
 CURRENT APPLICATION NUMBER: US/10/002,784A
 PRIOR FILING DATE: 2001-11-26
 PRIOR APPLICATION NUMBER: 08/882,431; 09/144,776
 NUMBER OF SEQ ID NOS: 40
 SOFTWARE: Apple Macintosh Microsoft Word 6.0
 SEQ ID NO 16
 LENGTH: 251
 TYPE: PRT
 ORGANISM: Artificial sequence
 FEATURE: Artificial sequence
 OTHER INFORMATION: streptococcal pyrogenic exotoxin-A mutant
 US-10-002-784A-16

```

RESULT 6
US-09-900-766-6
; Sequence 6, Application US/09900766
; Publication No. US20030039655A1
; GENERAL INFORMATION:
; APPLICANT: FORSBERG, GORAN
; APPLICANT: ERLANDSSON, EVA
; APPLICANT: ANTONSSON, PER
; APPLICANT: WALSE, BJORN
; TITLE OF INVENTION: A NOVEL ENGINEERED SUPERANTIGEN FOR HUMAN THERAPY
; FILE REFERENCE: P021880S;10104199
; CURRENT APPLICATION NUMBER: US/09/900.766
; CURRENT FILING DATE: 2001-07-06
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Staphylococcus sp.
US-09-900-766-6

Query Match          15.7%; Score 193.5; DB 11; Length 217;
Best Local Similarity 27.6%; Pred. No. 6e-11;
Matches 63; Conservative 35; Mismatches 89; Indels 41; Gaps 9;

17 LISTVYFYHSDSKDISNVKSDLL-----YAYTITPYDYKDCRVNFTHTLTNIDTQKY 71
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
14 LANVGGYNHPFIKE---NIKSDISEKDLIFRNOGDSGMDLRKVFATA----- 60
OY 72 RGRDYISSEKSYEASQFKFRDHDVDFGL-FYI---LNSHGEIYIGITPQANNKNV 126
D : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 -----DLAQFK-NKNVDIYASFYKCEKISENSECLYGGTTLNSEKLAQ 106
OY 127 HKLLG-NLFISGESQUNLNKKIIEKDIYTFQELDFIRKTLMDNYTIYDTSPIYSGRI 185
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
107 ERYVGAVWVDGLOKE--TELIRTKKNVTLQELDIKIRKILSDRYKIYKXDEISKGLI 164
OY 186 EIGRKDKHEDIDLFDSPNECTRSDFIRAKYKDNIIIMKNKFSHPDIYL 233
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 165 EFDKTRDYSFDIYDLKEND-VEIDKIYEDNKTLASDSDSHIDVNL 211

RESULT 7
US-09-900-766-7
; Sequence 7, Application US/09900766
; Publication No. US20030039655A1
; GENERAL INFORMATION:
; APPLICANT: FORSBERG, GORAN
; APPLICANT: ERLANDSSON, EVA
; APPLICANT: ANTONSSON, PER
; APPLICANT: WALSE, BJORN
; TITLE OF INVENTION: A NOVEL ENGINEERED SUPERANTIGEN FOR HUMAN THERAPY
; FILE REFERENCE: P021880S;10104199
; CURRENT APPLICATION NUMBER: US/09/900.766
; CURRENT FILING DATE: 2001-07-06
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Staphylococcus sp.
US-09-900-766-7

Query Match          14.9%; Score 183.5; DB 11; Length 233;
Best Local Similarity 25.8%; Pred. No. 6.2e-10;
Matches 61; Conservative 37; Mismatches 73; Indels 65; Gaps 11;

11 FIIVILISYFYHSDSKDISNVKSDLLVATITPYDYKDCRVNFTHTLTNIDTQK 70
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
47 FLENTLLFKGFFIGH-----PW-YNDLLVLDGSKDA---TNK 79

```


OTHER INFORMATION: mutant SpeA-mutant SpeB fusion
US-10-002-784A-27

Query Match	14.9%	Score 183	DB 15	Length 468
Best Local Similarity	26.5%	Pred. No. 1.8e-09		
Matches 58	Conservative 50	Mismatches 89	Indels 22	Gaps 10

[illegible]

RESULT 11
US-09-870-759-8
; Sequence 8, Application US/09870759

```

: GENERAL INFORMATION:
: APPLICANT: TERMAN, David S
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
: FILE REFERENCE: 870759
: CURRENT APPLICATION NUMBER: US/09/870,759
: CURRENT FILING DATE: 2002-01-14
: PRIOR APPLICATION NUMBER: US 60/208,128
: PRIOR FILING DATE: 2000-05-30
: NUMBER OF SEQ ID NOS: 166
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 8
: LENGTH: 257
: TYPE: prt
: ORGANISM: Staphylococcus aureus
: US-09-870-759-8

```

Query Match	14.6%	Score 179.5	DB 10	Length 257
Best Local	26.2%	Pred No. 1.7e-09		
Matches 61	Conservative 38	Mismatches 79	Indels 55	Gaps 11

```

QY 24 YHSDSKDISNVKSSDLVAATITPYDVKDCRVNSTHTLNTD-----TQKRGDYY 77
Db 54 YYINEAKTENKESHDFLOHTIL--ERGFTHNSWYNDLLVDSDKDIYDKYKGR-- 107
QY 78 ISSEMSYEASOKFRDDHVDVGFLEYILNSHTG-----EYIGGITTAPONKKVNH--KLL 130
Db 108 -----KVDLGAAYGYQACAGTFNKATACAGYGCTLLHDNRRLLEEKVP 150
QY 131 GNLFIGESQONLNKILTE-----KDIYFOEIDFKTRKYLMDNKYIYATSPYSGRI 185
Db 151 INIMLDGK-----QNTVPLETKTKKNVYVQELDLCARRYLOEKYNYLN--SDVFDGKV 203
QY 186 EIC-----TKDKHEDIDLEDSPNEGTSRSDIFAKKDKRIINMKNFSEHDLYL 233
Db 204 QRLIVFHTSTEDPSVNYDLFGAAGONSNT-LIRYRDKKTINSEUM-HIDILY 254

```

```

RESULT 12
US-09-751-708A-8
; Sequence 8, Application US/09751708A
; Publication No. US20030157113A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 751708

```

```

CURRENT APPLICATION NUMBER: US/09/751,708A
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 60/173,371
PRIOR FILING DATE: 1999-12-28
NUMBER OF SEQ ID NOS: 166
SOFTWARE: PatentIn version 3.1

```

```

; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-751-708A-8

```

	Query Match	14.6%	Score 179.5	DB 12	Length 257
	Best Local Similarity	26.2%	Pred. No. 1.7e-09		
Matches	Conservative	38	Mismatches	79	Indels 55; Gaps 11
OY	24 YHSDSKDISNWKDLLVATITPYDYKDCVNFSTHTLID-----TQRYGKDXY	77			
Dd	54 YYNNKAATEKNESHDOPLHTL---EKGFPTNSHWNDLLVDPSDKIDYKRGK---	107			
.OY	78 ISSEKSYEASOKFRDDHDVDFGLFYILNSHG-----EYIGGITPAONNKVNH--KL	130			
Dd	108 -----KVDLGAYTYGQCAGGTTRKTACMGCTGLDNRLTEKKVP	150			
OY	131 GNLFISGSQONLNKKILE----KDIYTFQEIDFKIRKYILMDNYKIYDATSPVSGRI	185			
Dd	151 INIMWDGR-----QNTVPLETFVKTKKKMNVTVQELDQARRYLQEKXNYIN--SDVF	203			
OY	186 ETG-----TKDGKEQIIDLFDSPNGCTSSDIFAKKKNRILIMKMFSEHIYL	233			
Dd	204 QRLGIIVFTSTPEPVNLDLFGAQQGNSTN-LIRITRDCKTINSENM-HDIIY	254			

RESULT 13
US-09-900-766-4
; Sequence 4, Application US/09900766
; Publication No. US20030039655A1
GENERAL INFORMATION:

```

:
: APPLICANT: FORSBERG, GÖRAN
: APPLICANT: ERLANDSSON, EVA
: APPLICANT: ANTONSSON, PER
: APPLICANT: WALSE, BJÖRN
:
: TITLE OF INVENTION: A NOVEL ENGINEERED SUPERANTIGEN FOR HUMAN THERAPY
:
: FILE REFERENCE: P0218050;10104199
: CURRENT APPLICATION NUMBER: US/09/900,766
: CURRENT FILING DATE: 2001-07-06
:
: NUMBER OF SEQ ID NOS: 7
:
: SOFTWARE: PatentIn version 3.0
:
: SEQ ID NO 4
:
: LENGTH: 233
:
: TYPE: PRF
:
: ORGANISM: Staphylococcus sp.
:
: US-09-900-766-4

```

Query Match	14.48;	Score 177.5;	DB 11;	Length 233;
Best Local Similarity	26.88;	Pred. No. 2.4e-09;		
Matches 63; Conservative	39;	Mismatches 74;	Indels 59;	Gaps 13

```

QY 24 THOSKSKDISNWKDLLAYAT1-----TPYD-YKDCRVNSTHTLIDTQYRKGDY 76
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 30 YYNNKAKATKNESHDOFLQHTILFKGFTTHSWNDELVLVDFSDIYD---KYKKG-- 83
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 77 YISSEMYEASQKFKRDHVDVDFGLFYLLNSHTG-----EYVGGTTPAONKNVHN--KL 129
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 84 -----KVDLGGATYGYQCGGCTPPNKTACTAGYGVTTLHDNNRLIEEKVY 125
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 130 LGNFISSGQONLNKKIILE---KDIYTFQEIIDFKIRKLYKNYKIYDATSPYVGR 184
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 126 PINILMDGK-----ONTVLEFVTKNNKNVTVQOEIDLQARRYLQEKYNLYN--SDVPDGK 178
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 185 IEIG-----TKDGKHEQIDLPSPNEGRSDLEFAK-YKDNRIINKNNSHFPIYL 233
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 179 VQRGILVHTSTEPSVNTDLFGA--QGOYSNLLRIYRKNKTIINSEMN-HIDIYL 230
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 14
US-10-283-838-7
Sequence 7, Application US/10283838
Publication No. US20030092894A1
GENERAL INFORMATION:
APPLICANT: Per Antonsson, Per Bjork, Mikael Dohlstén,
Johan Hansson, Terje Kalland, Lars
Abrahmsen and Goran Forsberg
TITLE OF INVENTION: MODIFIED/CHIMERIC SUPERANTIGENS
AND THEIR USE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pravel, Hewlett, Kimball & Krieger
STREET: 1177 West Loop South, 10th Floor
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77027-9095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/283,838
FILING DATE: 30-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/695,692
FILING DATE: August 12, 1996
APPLICATION NUMBER: 9601245-5
FILING DATE: March 29, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Krieger, Paul E.
REGISTRATION NUMBER: 25,886
REFERENCE/DOCKET NUMBER: 41986/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713-850-0909
TELEFAX: 713-850-0165
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 233 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-283-838-7
Query Match 14.4%; Score 177.5; DB 15; Length 233;
Best Local Similarity 26.8%; Pred. No. 2.4e-09;
Matches 63; Conservative 39; Mismatches 74; Indels 59; Gaps 13;
QY 24 YHOSKSKDISNVKSDLYAYTI-----TPYD-YKDCRVNFTTHLTINIDTKRGDY 76
DB 30 YYNEKATKEMKESHDQFLQHTILFKGFTDHSWTNLDLVDFDSKDIDV---KKGK- 83
QY 77 YISSEMSYASQKFKRDPDVDFGLFYILNSHTG-----EYIGGTPAONNVKHH--KL 129
DB 84 -----KVDLYGAYVGYQAGGTPNKTACMGVITLHDNNRLTEEKV 125
QY 130 LGNLFISGESQONLNKKITLLE-----KOIYFQEIDEFIRKRYLMDNRYKYDATSPYSGR 184
DB 126 PINMLDCK-----ONTVPLETVTKNKKNTVVOELDQARRYLQEKYMLYN--SDVFDGK 178
QY 185 IEIG-----TKDGKHEQIDLDFSPNEGRSDIPAK-YKDNRLINMKNSHDIYL 233
DB 179 VQRGILYFHTSTESVNTDLFGA--QGQYSNTLLRTYDNKNTINSENM-HIDIYL 230

RESULT 15
US-08-882-431-6

Sequence 6, Application US/08882431
Publication No. US2003009015A1
GENERAL INFORMATION:
APPLICANT: Robert G. Ulrich,
APPLICANT: Mark A. Olson
APPLICANT: Sina Bavari
TITLE OF INVENTION: Bacterial Superantigen
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: John Moran
STREET: US Army MRC -504 Scott Street MCMR-JA (John Moran-Patent Atty)
CITY: FORT DETRICK
STATE: MARYLAND
COUNTRY: USA
ZIP: 21702-5012
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.5
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,431
FILING DATE: June 25, 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Moran, John
REGISTRATION NUMBER: 26,313
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 619-2065
TELEFAX: (301) 619-7714
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 265
TYPE: Amino Acid
STRANDEDNESS: Unknown
TOPOLOGY: Unknown
MOLECULE TYPE: Peptide
US-08-882-431-6
Query Match 14.4%; Score 177; DB 8; Length 265;
Best Local Similarity 24.6%; Pred. No. 3.1e-09;
Matches 70; Conservative 49; Mismatches 86; Indels 80; Gaps 14;
QY 2 KKNIKIVFITVILI-----STVFTYHOSDSK-----KDS- 34
DB 3 KRLFISHVILFALILVISTPNVLAESQDPKPDDELHKSXFTGLMEDMKVLYDDNHVSA 62
QY 35 -NVKS-----DLXATITPY-DYKDCRVNFTTHLTINIDTKYRKGDYIISSEMSYE 85
DB 63 INVNSIDQFLVFDLYLSIKDKLADGVDNVRVEF-----KKKD----- 99
QY 86 ASQKFKRDPDVDFGLFYI-----LNSHTG-----YIGGTPAONNVKHHLL 130
DB 100 LADATK-DKYVDVGCANYYOCYFSKNTDINSNOTDRKCKMGVTEHNGNOLDKYRS 158
QY 131 GNLFISGESQONLNKKITLLEKDIYTFQEIFDKIRKRYLMDNRYKYDATSPYSGRIETGT 189
DB 159 ITVRVEFDGKMLSPDVQYNNKRYTAQELDYLTRHYLVKNNKKLVEFNNSPYETGYINF- 216
QY 190 KDGHQEQIDLDFSPNEG-TRSDIFAKYKDNRLINMKNSHDIYL 233
DB 217 IENQFWYDMAPAGDKFAQSKLYLMYNDNKMVDSKDVK-DEVLYL 260

Search completed: August 28, 2003, 03:02:54
Job time : 61 secs